



UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office

**NOTICE OF ALLOWANCE AND ISSUE FEE DUE**

020449

PM92/0625

KARL R CANNON  
PO BOX 19091  
SANDY UT 84091

APPLICATION NO.	FILING DATE	TOTAL CLAIMS	EXAMINER AND GROUP/ART UNIT	DATE MAILED
087828, 802	03/27/97	016	CHARLES, M	06/02/97
First Named Applicant				06 USC 154 (b) term sixt 0 Days
TITLE OF INVENTION				CONTINUOUSLY VARIABLE RECIPROCATING TRANSMISSION DEVICE
ATTY'S DOCKET NO.	CLASS-SUBCLASS	BATCH NO.	APPLN. TYPE	SMALL ENTITY
3 14654	074-117.000	V04	UTILITY	YES
FEE DUE \$605.00				DATE DUE 07/27/99

**THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT.  
PROSECUTION ON THE MERITS IS CLOSED.**

**THE ISSUE FEE MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS  
APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED.**

**HOW TO RESPOND TO THIS NOTICE:**

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is changed, pay twice the amount of the FEE DUE shown above and notify the Patent and Trademark Office of the change in status, or
- B. If the status is the same, pay the FEE DUE shown above.

If the SMALL ENTITY is shown as NO:

- A. Pay FEE DUE shown above, or
- B. File verified statement of Small Entity Status before, or with, payment of 1/2 the FEE DUE shown above.

II. Part B-Issue Fee Transmittal should be completed and returned to the Patent and Trademark Office (PTO) with your ISSUE FEE. Even if the ISSUE FEE has already been paid by charge to deposit account, Part B Issue Fee Transmittal should be completed and returned. If you are charging the ISSUE FEE to your deposit account, section "4b" of Part B-Issue Fee Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give application number and batch number.

Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

**IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.**

PATENT AND TRADEMARK OFFICE COPY



UNITED STATES DEPARTMENT OF COMMERCE

Patent and Trademark Office

Address: COMMISSIONER OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

*SL*

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
-----------------	-------------	----------------------	---------------------

08/828,802 03/27/97 PARK

B T4664

EXAMINER

020449  
KARL R CANNON  
PO BOX 1909  
SANDY UT 84091

PM92/0625

ART UNIT ARLES, PAPER NUMBER

*LO*

DATE MAILED: 2

06/25/99

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

## Notice of Allowability

Application No. <b>08/828,802</b>	Applicant(s) <b>Park</b>
Examiner <b>Marcus Charles</b>	Group Art Unit <b>3682</b>

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance and Issue Fee Due or other appropriate communication will be mailed in due course.

This communication is responsive to the telephonic interview held 06/08/99

The allowed claim(s) is/are 1-4, 11-14, 19-23, and 29-31

The drawings filed on \_\_\_\_\_ are acceptable.

Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).

All  Some\*  None of the CERTIFIED copies of the priority documents have been received.

received in Application No. (Series Code/Serial Number) \_\_\_\_\_

received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\*Certified copies not received: \_\_\_\_\_

Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

A SHORTENED STATUTORY PERIOD FOR RESPONSE to comply with the requirements noted below is set to EXPIRE THREE MONTHS FROM THE "DATE MAILED" of this Office action. Failure to timely comply will result in ABANDONMENT of this application. Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL APPLICATION, PTO-152, which discloses that the oath or declaration is deficient. A SUBSTITUTE OATH OR DECLARATION IS REQUIRED.

Applicant MUST submit NEW FORMAL DRAWINGS

because the originally filed drawings were declared by applicant to be informal.

including changes required by the Notice of Draftsperson's Patent Drawing Review, PTO-948, attached hereto or to Paper No. \_\_\_\_\_

including changes required by the proposed drawing correction filed on \_\_\_\_\_, which has been approved by the examiner.

including changes required by the attached Examiner's Amendment/Comment.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the reverse side of the drawings. The drawings should be filed as a separate paper with a transmittal letter addressed to the Official Draftsperson.

Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Any response to this letter should include, in the upper right hand corner, the APPLICATION NUMBER (SERIES CODE/SERIAL NUMBER). If applicant has received a Notice of Allowance and Issue Fee Due, the ISSUE BATCH NUMBER and DATE of the NOTICE OF ALLOWANCE should also be included.

### Attachment(s)

Notice of References Cited, PTO-892

Information Disclosure Statement(s), PTO-1449, Paper No(s). \_\_\_\_\_

Notice of Draftsperson's Patent Drawing Review, PTO-948

Notice of Informal Patent Application, PTO-152

Interview Summary, PTO-413

Examiner's Amendment/Comment

Examiner's Comment Regarding Requirement for Deposit of Biological Material

Examiner's Statement of Reasons for Allowance

Art Unit: 3682

### EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CAR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with **Karl R. Cannon** on 06/08/99

3. The following changes have been made to the claim to correct indefiniteness, antecedent problems and to place the claims in condition for allowance.

✓ Claims 32-35 and 37-38 have been canceled.

In claim 1, line 20, "." has been replace with --;-- after "radius"

In claim 1, line 21, --wherein the first rotational member includes a movement piece having a female-threaded through passage formed therein, wherein the adjusting means further comprises:

mass means movable disposed on the first rotational member for moving radially outwardly and inwardly along said first rotational member;

at least one male-threaded member rotatably disposed on the first rotational member and extending through the through passage of the movement piece in threaded engagement therewith.-- has been added.

Art Unit: 3682

In claim 20, line 5, "second force-transmitting member comprises a" has been replaced by

--transmission device comprises a cylinder in which the--.

In claim 20, line 6, --is-- has been inserted after "member".

In claim 29, line 2, "," has been deleted after "rotational".

### **REASONS FOR ALLOWANCE**

Claims 1-4, 11-14, 19-23 and 29-31 are allowed.

1. The following is an examiner's statement of reasons for allowance:

The claims set forth the combination of a transmission device as set forth in claims 1 and 11, and in particular, includes a first rotational member includes a movement piece having a female-threaded through passage formed therein. , wherein the adjusting means further comprises:

mass means movable disposed on the first rotational member for moving radially outwardly and inwardly along said first rotational member;

at least one male-threaded member rotatably disposed on the first rotational member and extending through the through passage of the movement piece in threaded engagement therewith.

The mass means as set forth in claim 29, wherein the mass means movably disposed on the first rotational member for moving radially outwardly and inwardly along the first rotational member responsive to increases and decreases in rotational velocity, respective, of the first rotational member, is not shown or taught by the prior art of record.

Art Unit: 3682

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marcus Charles whose telephone number is (703) 305-6877. The examiner can normally be reached on Monday - Friday from 8:00 am - 5:00 pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Graysay, Tamara, can be reached on (703) 308-2144. The fax phone number for this Group is (703) 305-7687.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-2168.

*mc*  
Charles/mc  
June 23, 1999